

CIA-RDP86-00513R001548720018-5 "APPROVED FOR RELEASE: 08/09/2001

SHAVSHA-TOLKACHEVA, I. G.

USSR/ Chemistry Physical chemistry

Card 1/1 Pub. 40 - 6/27

Authors : Arbuzov, B. A., and Shavsha-Tolkacheva, T. G.

Title : Dipole moments of orthopropionic and orthoformic acid esters

Periodical : Izv. AN SSSR. Otd. khim. nauk 4, 614 - 621, July - August 1954

Abstract : The dipole moments of various orthopropionic and orthoformic acid esters were measured and the results are shown in a table. It is evident that the dipole moments, of the above mentioned esters, are much

higher than the dipole moments of orthocarbonic acid esters. An analogy between phosphorous acid esters and orthopropionic acid esters was established by the disposition of the dipole moments of individual bonds. The interatomic spaces of various molecular ester models were calculated with consideration of the affective radius of the van der

Waals forces. Nine references: 6 USSR; 2 German and 1 USA (1929 -

1951). Tables.

: The V. I. Lenin State University, The A. M. Butlerov Scientific Research

Institute, Kazan

Submitted : June 25, 1953

> APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720018-5"

(MIRA 15:4)

SPERAMSKIY, B.A., kand.tekhn.nauk; SHAVSHUKOVA, G.N., inzh.; OL'KOV, Ya.I. inzh. Methods of prestressing steel structures with stressed elements of high-strength steel. Trudy NII prom. zdan.i soor. no.5:124-143

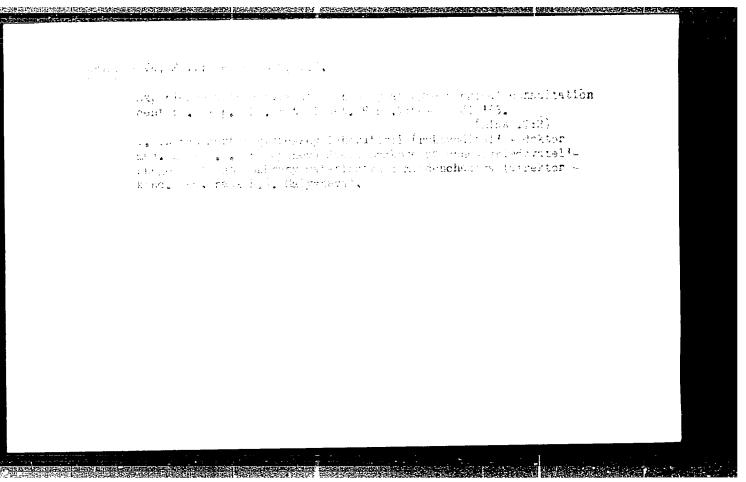
(Steel, Structural)

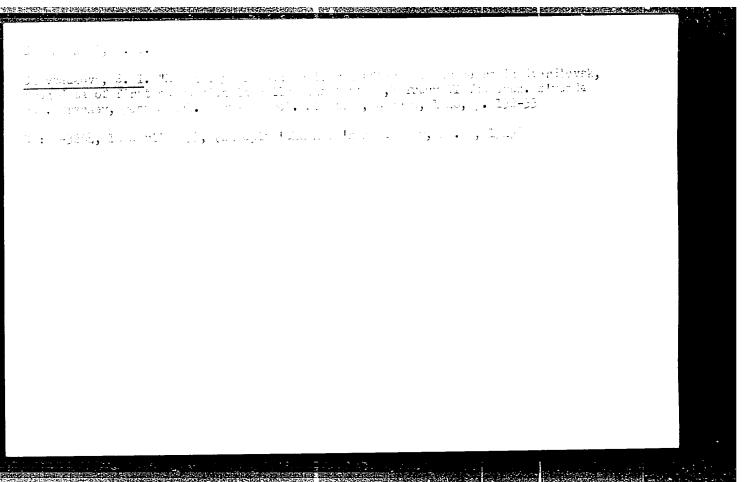
61.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720018-5"

LABZENKO, V.I., kand. tekhn. nauk; SMIRNYAGIN, Yu.V., inzh.; VOLOĐARSKIY, B.Ya., inzh.; FLOROV, R.S., kand. tekhn.nauk; SPERANSKIY, B.A., kand. tekhn.nauk; SHAVSHUKOVA, G.N., inzh.; OL'KOV, Ya.I., inzh.; TAMPLON, F.F., inzh.; SUKHANOV, V.P., inzh.; TIMASHEV, S.A., inzh.; BOLOTINA, A.V., red.izd-va; KOROBKOVA, N.I., tekhn. red.

[Progressive metal elements for industrial construction] Progressivnye metallicheskie konstruktsii dlia promyshlennogo stroitel'stva. [By]V.I.Labzenko i dr. Pod red. V.I.Labzenko i R.S.Florova. Moskva, Gosstroiizdat, 1963. 183 p. (MIRA 16:4)





SHAVSHUKOVA, S.I.

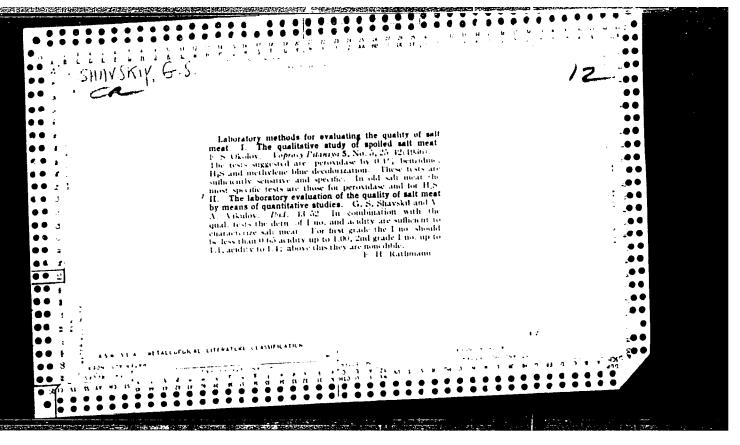
Combined treatment of intracranial trauma in newborn infants.

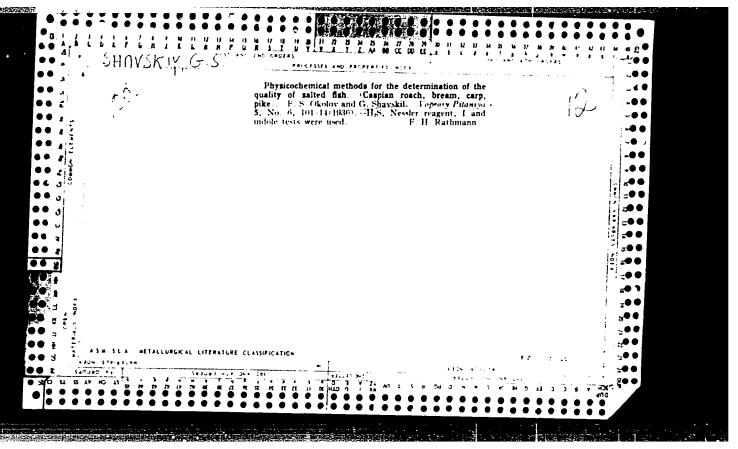
(MIRA 14:4)

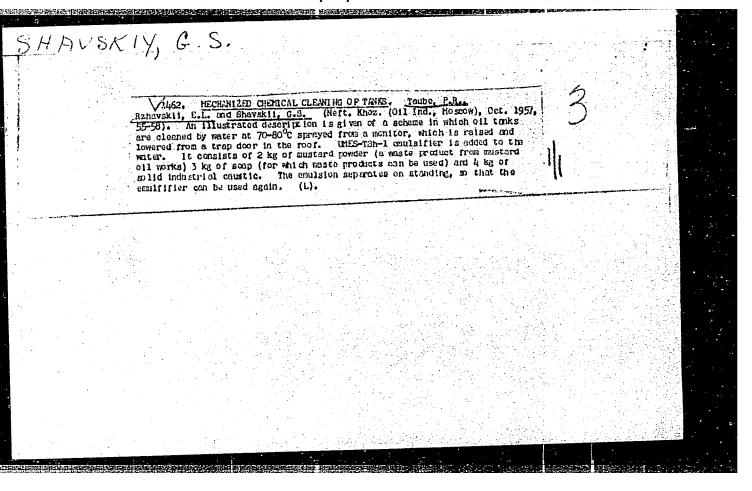
Pediatriia 39 no.3:27-31 Mr '61.

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i mladenchestva (dir. - kand.med.nauk R.A. Malysheva, nauchnyy rukovoditel' - dotsent R.Ye. Leyenson).

(BRSIN-WOUNDS AND INJURIES) (BIRTH INJURIES)







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TAUBE, P.R.; TSVETKOVA, N.K.; SHAVSKIY, G.S.

Studying mustard cake. Izv.vys.ucheb.zav.; pishch.tekh. no.h;
(MIRA 11:11)
30-33 '58.

1. Astrakhanskiy tekhnicheskiy institut rybnoy promyshlennosti,
Kafedra obahchey khimii.
(Mustard oil) (Sinigrin)
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TAUBE, P.R.; SHAVSKIY, G.S.

Using emulsions for cleaning barges. Izv.vys.ucheb.zav.; neft' i gaz.
no.7:95-100 '58. (MIRA 11:11)

1. Astrakhanskiy tekhnicheskiy institut rybnoy promyshlennosti i
khozyaystva. (Tank vessels--Cleaning)

TAUBE, F.R., dots., kand.khim.nauk; SHAVSKIY, G.S., assistent

Emulsion cleaning of barges. Rech.transp. 17 no.10:45-46 0 158.

(MIRA 11:12)

1. Astrakhanskiy tekhnicheskiy institut tybnoy promyshlennosti.

(Barges--Cleaning)

TAUBE, P.R., kand. khim. nauk; TSVETKOVA, H.K., kand. khim. nauk; SHAVSKIY, G.S.

Complete processing of oil cake for fuel. Mesl.-zhir. prom. 24 (MIRA 11:7) no. 6:7 '58.

1. Asrybytuz. (Oil cake) (Fuel)

EPA(s)-2/ENT(m)/EPF(c)/EPR/ENP(j)/T Pc-4/Pr-4/Ps-4/Pt-10 WW/RM L 35520-65 \$/0286/65/000/005/0070/0070 ACCESSION NR: AP5008199 AUTHORS: Oster-Volkov, N. N.; Kamenskiy, I. V.; Itinskiy, V. I.; Shavskiy, G. Okulin, V. S. TITLE: A method for producing resins from furfuryl alcohol. Class 39, No. 168878 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 70 TOPIC TAGS: resin, alcohol ABSTRACT: This Author Certificate presents a method for producing resins from furfuryl alcohol in the presence of small quantities of maleic anhydride. In order to increase the selection of resins with high thermal stability, the furfuryl alcohol is condensed with furhydrazine. ASSOCIATION: none SUB CODE: Mr. OC ENCL: SUBMITTED: 12Mar62 OTHER: 000 NO REF SOV: 1/1 Card

L 35522-65 EWT(m)/EWP(j) Pc-4 RM

ACCESSION NR: AP5008201.

s/0286/65/000/005/0071/0071

AUTHORS: Oster-Volkov, N. N.; Shavskiy, G. S.; Cheremukhin, I. K.; Pospirova, N. M. Trofimova, G. M.

TITLE: A method for producing synthetic resin. Class 39, No. 168880 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 71

TOPIC TAGS: resin, synthetic material, maleic anhydride, alcohol, thermal stability

ABSTRACT: This Author/Certificate presents a method for producing synthetic resin from furfuryl alcoholbin the presence of maleic anhydride by condensation. To obtain resin of high thermal stability, the furfuryl alcohol is condensed first with levulose in the presence of alkali, and maleic anhydride is then introduced into the reaction mixture.

ASSOCIATION: none

SUBMITTED: 25May62

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

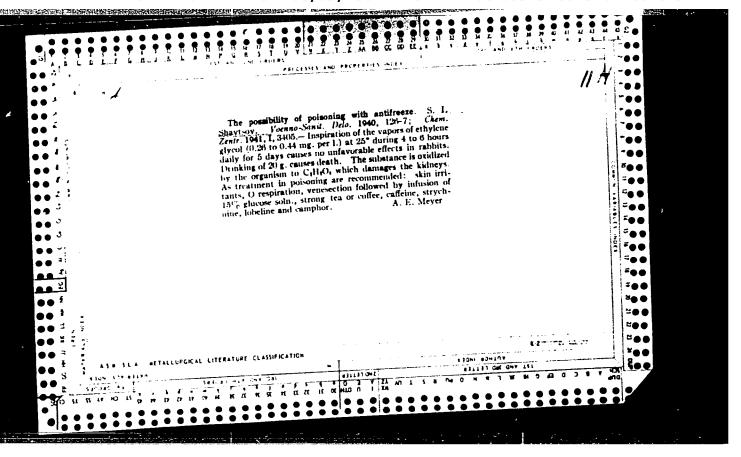
OTHER: 000

Card 1/1

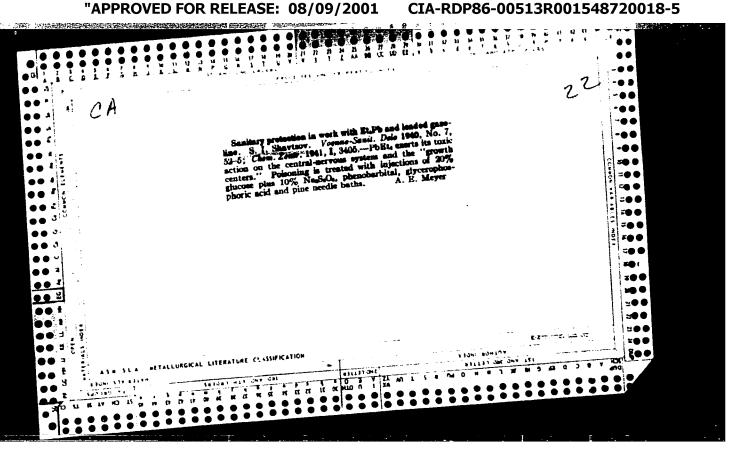
Secretaria de Principal de Caracina de Car		A Comment of the Comm	
		Pa_4/Pt_7- 41V/RN	
AUTHORS: Oster-Volkov, N. N.; Sh	a a Managemetel	M. I. K. TIULIMOVA	
mrmr. A method for obtaining th	ermosetting resin. Cla	B 331 <u>200</u>	
SOURCE: Byulleten' izobreteniy 1	TOVALIDAM		
TOPIC TAGS: resin, furyl alcohol ABSTRACT: This Author Certificat resin based on furyl alcohol and increase the thermochemical stab	te presents a method for	obtaining of olkali. To	
condensate mixture.	V		
ASSOCIATION: none		SUB CODE:	- 3:
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The Rules For Frescribing, Receiving, Storing, Use, and Accounting of Medicines Containing Poisonous and Hingly-Effective Substances VOYDNNO-MEDITS MSKIY ZHURNAL (Military Medical Journal), no. 2, February 1955, p.79

SHAVTSOV, S.I.,polkovnik med.sluzhby

History of the pharmacy in the Main Military Hospital. Voen.-med.

zhur. no.11:90-91 N '50.
(MOSCOW--PHARMACY)

(MOSCOW--PHARMACY)

SHAVTSOV, S.I., polkovnik med, sluzhby

Method for calculating medical supply requirements. Voen. med.zhur.
no.7:21-25 J1 '52. (NIRA 12:12)

(MEDICINE, MILIMARY AND NAVAL

med. property, method of determ. of requirements

(Rus))

SHAVTSOV, S.I., polkovník med. služnby.

Two hundred fiftieth anniversary of the first Russian military hospital pharmacy, 1707-1957. Apt.delo 7 no.2:57-22 Mr-Ap '58. (MOSCOW--PHARMACT)

(MOSCOW--PHARMACT)

(MIRA 11:4)

SHAVTSOV, S.I., polkovnik meditsinskoy sluzhby

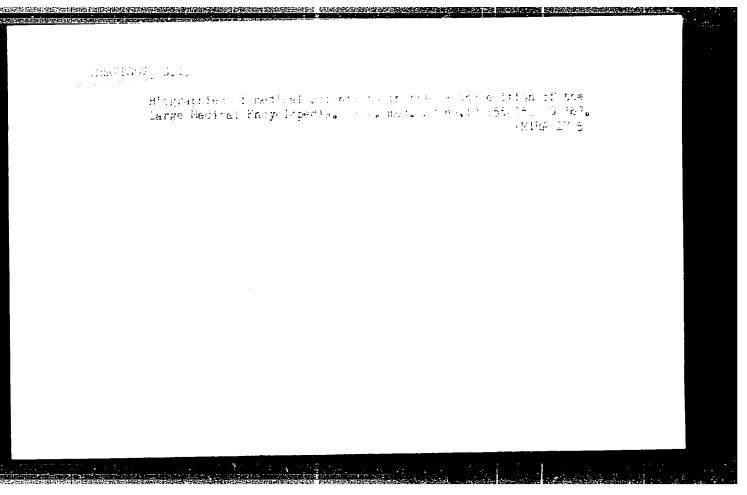
Role of the Petersburg Medical and Surgical Academy in the training of military-pharmaceutic personnel; from the history of Russian military pharmacy. Voen.-med.zhur. no.8:82-84 Ag '59. (MIRA 12:12) (MEDICINE MILITARY hist.) (PHARMACY hist.)

SHAVISOV, S.I., polkovnik meditainskoy sluzhby

Letters to the editors. Klin.med. 40 no.10:146-148 0 '62.

(MEA 15:12)

(MELICINE...INTERNATIONAL COOPERATION)



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17(8)

SOV/177-58-7-4/28

AUTHOR:

Shavtsov, S.I., Colonel of the Medical Corps

TITLE:

The Problem of the Method of Calculating the

Requirements for Medical Equipment

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 7, pp 21-25

(USSR)

ABSTRACT:

The author criticizes the former method of calculating the requirements for medical equipment. From 1938 on, the Military-Medical Academy and the Uchenyy

meditsinskiy sovet pri nachal'nike Sanitarnogo upravleniya Krasnoy Armii (Scientific Medical Council attached to the Chief of the Medical Administration of the Red Army) have worked on this problem. At the second plenary session (December 1940), Frofessor M.P. Mikolayev talked about "Norms of Calculating the Requirements for Medical Equipment". On this occasion, the reduction of the nomenclature of medical equipment was discussed. During WW II a

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720018-5"

17(8) 507/177-58-9-17/51

AUTHOR: Shavtsov, S.I., Colonel of the Medical Corps

TITLE: P.M. Zhuravlev - One of the Organizers of Medical

Supply in the Army

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Hr 9, pp 60-62

(USSR)

ABSTRACT: The article is a short biography of military

officer Petr Mironovich Zhuravlev who was one of the best organizers of medical supply in the Army. He was born in 1903 in Kiyev and was killed in action in 1943. He was well-known because of his famous discussions on problems of medical supply at the sessions of the Scientific Medical Council. He helped greatly

in simplifying the medical field supply system.

Card 1/1

SHAVISOV, S.I. (Moskva)

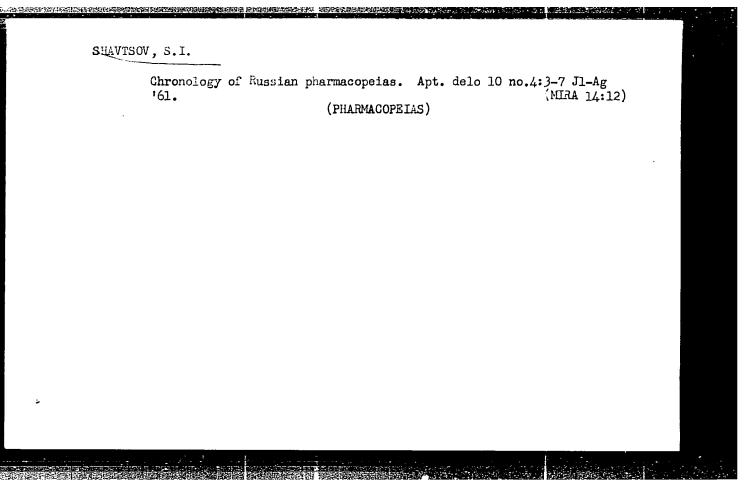
Errors in works dealing with the history of Russian pharmacy. Sov.

zdrav. 18 no.8:30-35 '59.

(PHARMACY hist.)

Nikon Karpovich Karpinskii; on the 150th anniversary of his

death. Vrach. delo no.8:145-146 Ag 161. (MIRA 14 (KARPINSKII, NIKON KARPOVICH, 1745-1810)



SHAVTSOV, S.I.

"Struggle of Russian physicians in the first half of the 19th century against the idealism and positivism of natural philosophy" by S.S. Vail'. Reviewed by S.I.Shavtsov. Sov.zdrav. 20 no.4:79-81 '61. (MIRA 14:5)

(MEDICINE ___PHILOSOPHY)

(VAIL', S.S.)

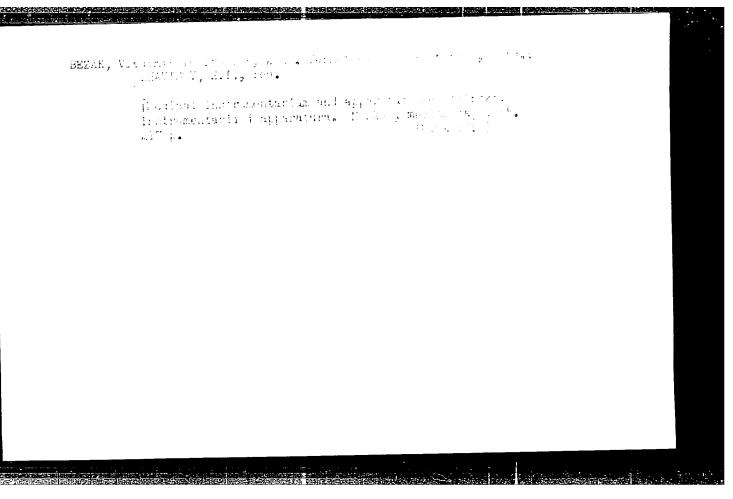
SHAVTSOV, S.I. (Moskva)

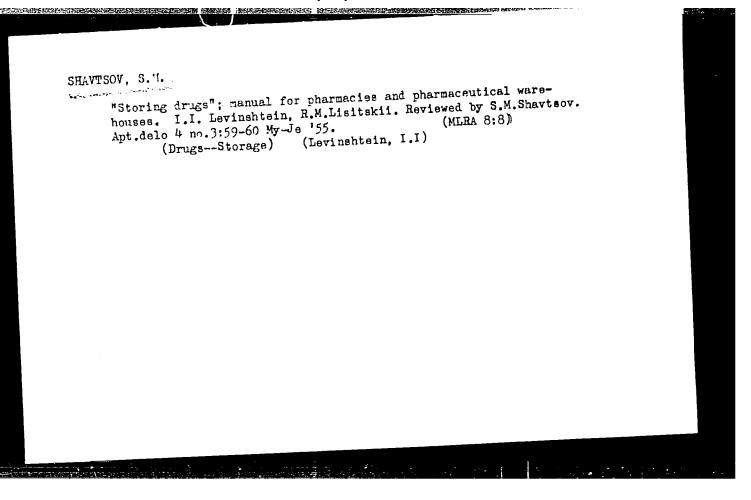
N.K.Karpinskii, notable Russian anatomist, surgeon and drug specialist.

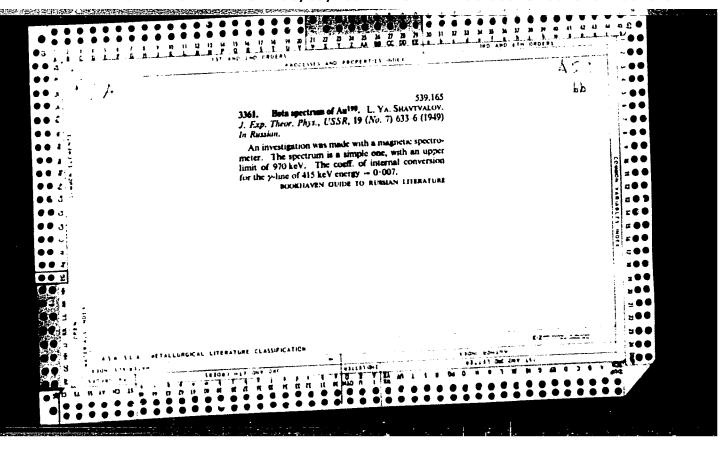
Sov. zdrav. 21 no.6:80-8%. 62.

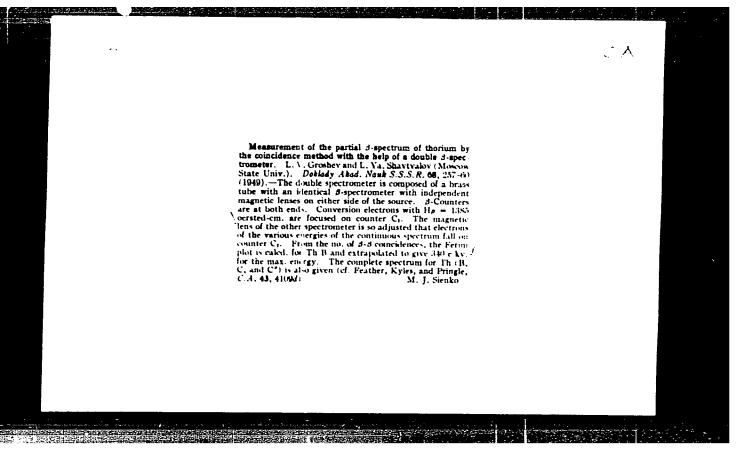
(KARPINSKII, NIKON KARPOVICH, d.1812)

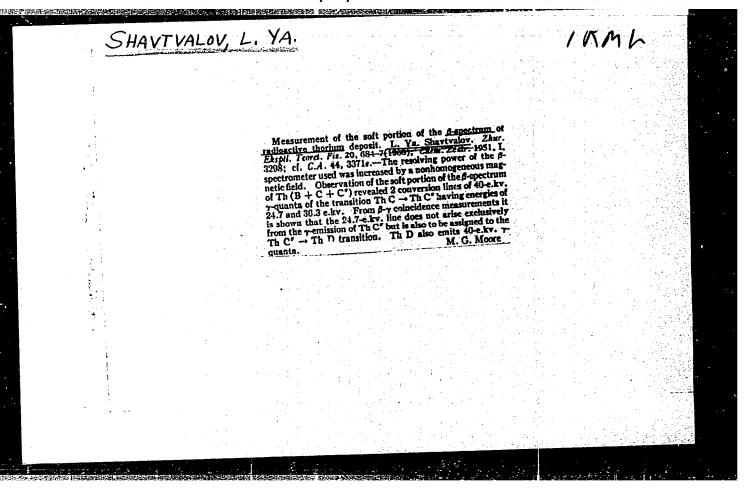
(KARPINSKII, NIKON KARPOVICH, d.1812)











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SHIP NEW, L. YV.	PA 1971Ph
IC 197794 USSR/Nuclear Physics - Radiation of Eu Oct 51 (Contd) mev max. No true coincidences of 122-keV gamma line with continuous beta spectrum was found, which indicates that 122-keV gamma line is rather associated with K-capture than with beta decay. Submitted 14 oct 50.	USSR/Nuclear Physics - Radiation of Eu Oct 51 "Investigation of Radiation of Eu 152,154 by Means of Double Beta Spectrometer," L. Ya. Shavtalov, Moscow State U "Zhur Eksper i Teoret Fiz" Vol XXI, No 10, pp 1123-1126 Discusses measurements of beta-gamma coincidences in Eu 152,154. Elementary beta-spectrum with 0.75 upper limit, approximating theoretical allowed transitions, was sepd from complex beta-spectrum of Eu 152,154. It was established that 336.4-keV

	Troop &		
	USSR/Physics - Superconductivity "Letters to the Editor"	Nov 52	
	"Zhur Eksper i Teoret Fiz" Vol 23, No	5, pp 609-	
	A. I. Kostarev, "Remarks on Articles of Kostarev" (cf. "Zhur Eksper i Teoret I and 20 (1950). N. Ye. Alekseyevskiy, Problems, Acad Sci USSR, "Superconduct Alloys of Bismuth With Rubidium and Cel. Ya. Shavtvalov, Moscow State Univ, gation of Gamma Radiation by means of electrodes."	Dy A. I. Fiz," 19 Inst Phys ivity of sium"	
		236 T 68	

SHAVTALOV, L. YA.

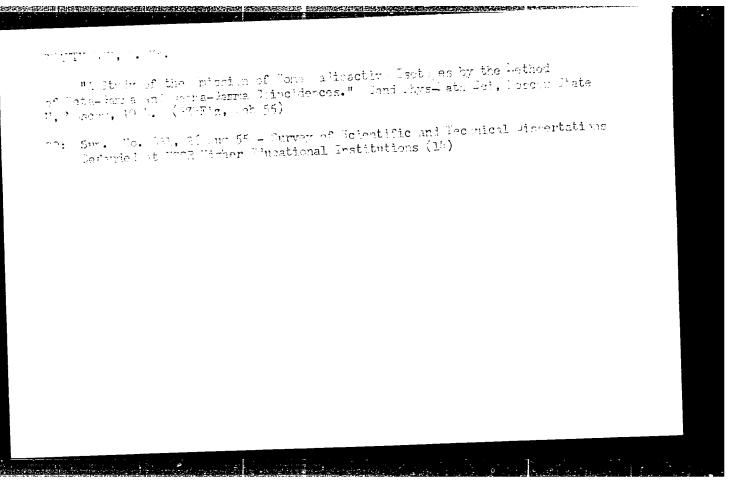
USSR/Nuclear Physics - To isomer Jul/Aug 53

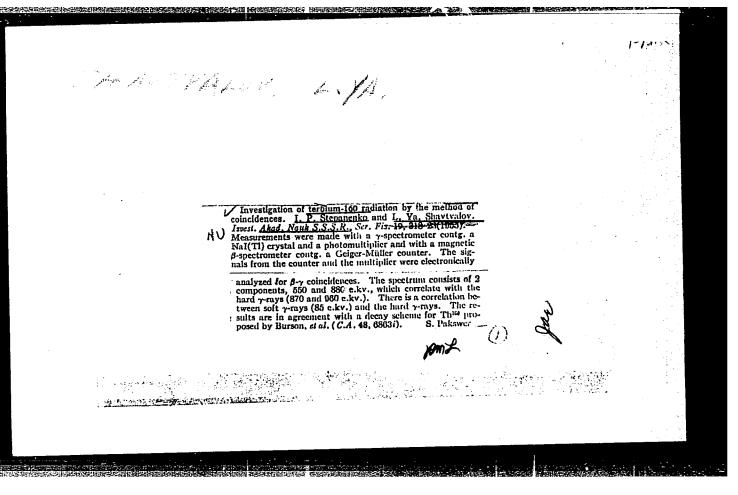
"Study of Tb160 Emission," L. Ya Shavtalov

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 503-505

Studied radioactivity of long-lived (74d) isomer of Tb¹⁶⁰. After plotting Fermi's graph, author obtained values of upper limits of partial spectra, shown in graphs. Indebted to Ye. F. Klyukvina and Z. I. Lunik. Rec 9 Jul 53.

272T49





Viciliyev. S. B., <u>Chavtvelov. L. fa.</u> STV-40-22-7-4/26 LUTTHORS: s-Spectra of Chort-Lived Tector-o \mathbb{R}^{188} and \mathbb{R}^{17} (supplierly korotkuznivaznobikh izstorov ${\rm Al}^{(8)}$, ${\rm F}^{17}$) TITE GE Investiga Shatemia neek 1968. Seelys Camebeshaya, 1958; . Estobilai. Vol. 27. Mg /, pp. 730-770 UNUR) The 2- and y-radiation of short-lived isotopes (Refs 4-14) were subject to this investigation. A 6-spectrometer with ar. RACT: a magnetic lens and a γ -luminescence spectrometer was used. The lootopes were obtained by bombarding targets with deuterons of an energy of 4 MeV. The deuterons were accelerated in the cyclotron of the NIIYaF MOU and led out behind the shield into the chamber of the 3-spectrometer. Al28, which obtained according to the (d. p)-reaction, was selected for investigation. The upper limit of the 3-spectrum of Ala8 equals 2820 ± 50 keV. Contrary to reference 16 the diagram was obtained with a straight curve. The half-life determined actording to the variation of the intensity in the spectral range of 1100 keV amount d to 1.1 ± 2 minutes. The halflife letermined from the verreination amounts i to 7.3 t 0.1 dard 1/2

Sespentra of Short-Lived Instance A (8 and 2) (1) projection of Short-Lived Instance A

minutes. It is possible that a less intensive 3-spectrum with an unper limit of who May exists. The half-lite corresponding to this component was estimated on the 3-spectrum meter sat 3.2 MeV and furnished a value of T. 19 = 27-20 sec. The curation of the exists at all its not settled as get. The exspectrum of T. was obstained from a [i. i.] reaction with existent The examination furnished an upper limit of 1700 to the straight is observed in the farmi-diagram. The half-life measured to means of the 3-spectrum of a 200 keV or spectrum of the farmi-diagram. The half-life measured to means of the 3-spectrum of the farmi-diagram. The half-life measured to means of the 3-spectrum of the farmi-diagram, and the farmon was terminated no yeradisection origin time from the target was found. S. M. Makuni and Z. J. Tirhomirova, and the exploitmen-staff: T. T. hoshelyayev. A. L. sanilov, 7. Knippov sanitad is the work. There are 5 figures and 6 references. For which are Soviet.

An. Off TION: Newsmonth of the News Items institut guidence fixiki Monkowskop :

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Vasil'yev, S. S., Shavtvalcv. L. Ya. S0V/58-36-1-47/62 21(8) AUTHORS: The β -Spectra of F^{20} and F^{17} (β -spektry F^{20} i F^{17}) TITLE: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958, PERIODICAL: Vol 36, Nr 1, pp 317-318 (USSR) The β -spectrum of F^{20} was investigated by means of a eta -spectrometer with a magnetic lens. The bundle of 4 MeV ABSTRACT: deuterons accelerated in the cyclotron of the NIIYaF MGU (Nauchnyy issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta = Scientific Research Institute for Nuclear Physics of Moscow State University) was introduced into the chamber of a $oldsymbol{eta}$ -spectrometer. The scheme of the experiment has already previously teen described by the authors. As a target LiF ($\sim 0.4~\rm mg/cm^2$) was used. The spectrum recorded by the authors is a superposition of the β -spectrum of F^{20} (which was produced according to the reaction $F^{19}(d, p)F^{20}$) over the β -spectrum of Li 8 (produced according to the reaction Li (d, p) Li). About half of the simface under the curve of Card 1/4

The β -Spectra of F^{2C} and F^{17}

SOV/56-36-1-47/62

the β -spectrum of Li⁸ was below the upper boundary of the β -spectrum of F²⁰. The β -spectrum of F²⁰ was determined by subtracting the β -spectrum of Li⁸ from the β -spectra of Li⁸ and F²⁰ (apparently the sum of these spectra is meant). The second figure shows the Fermi diagram for F²⁰, which is rectilinear. The upper boundary of the β -spectrum of F²⁰ is about (5.45 \pm 0.05) Mev. Estimation of the half-life(which was carried out for the spectral range of about 1840 kev) resulted in the value (12.5 \pm 2) sec. The results obtained by the present paper agree with those obtained by other authors. In the case of the irradiation of a thin target of LiF with deuterons, the relative number of radioactive nuclei of Li⁸ and F²⁰ in the target, and, consequently, also the relative intensity of their β -radiation in radiumactive equilibrium are proportional to the ratio of the total cross section of the reactions Li⁷ (d, p) Li⁸ and F¹⁹ (d, p) F²⁰. For the ratio δ (F¹⁹)/ δ (Li⁷) the value ~1.5 was found at deuteron energies

Card 2/4

The β -Spectra of F^{20} and F^{17}

SOV/56-36-1-47/62

of \sim 4 Mev. Besides, the eta-spectrum of F' (which was produced after the reaction 0 16 (d, n) R^{17}) was recorded. The target was a film of Celluloid (C6H10 5) x having a thickness of \sim 0.5 mg/cm², Deviation from rectilinearity in the Fermi diagram of F17 begins at about 800 ker, i. a. approximately at the same energy as if leal cxide targets were used. Therefore, deviation from the straight line in the Fermi diagram of \mathbf{F}^{17} is apparently not connected with the scattering of positrons in the target. Also the eta -spectrum of $\mathbf{F}^{1,7}$ is probably a superposition of two partial spectra, and also in this case decay probably leads to the expited level of 880 key existing in the nucleus. This assumption, however, must yet be experimentally confirmed. The authors thank Yu. M. Shirokov for useful discussions, B. M. Makumi and Z. I. Tikhomirova for their assistance, and they also express their gratitude to the sycletron team, especially to G. V. Koshelyayev, A. A. Danilov, V. P. Khlapov, and A. F. Ozyabkin. There are 2 figures and 9 references, 1 of which is Soviet.

Card 3/4

VASIL'YEV, S.S.; SHAVTVALOV, L.Ya.

\$\beta^{\frac{1}{2}}\$ - spectrum of \$\text{Si27}\$. Zhur.eksp.i teor.fiz. 39 no.5:1221-1223 (MIRA 14:4) N '160.

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta. (Silicon—Spectra)

VASILIYEV, S.S.; NO SEN CHAN; SHAVTVALOV, L.Ya.

Study of Mn⁵⁶ radiation. Izv. AN SSSR. Ser. fiz. 25 no.9:1115-1116 '61. (MIRA 14:8)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(Manganese--Isotopes)

(Radiation)

VASIL'YEV, S.S.; NON SEN CHAN; SHAVTVALOV, L.Ya.

Investigating the radiation from Zn⁶³. Zhur. eksp. i teor.
fiz. 40 no.2:475-476 F '61.

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

(Zinc—Istopes) (Radiation)

BASKOVA, K.A.; VASIL'YEV, S.S.; NO SEN CHAN; SHAVTVALOV, L.7a,

Decay scheme of Er⁷⁵. Zhur. eksp. i teor. fiz. 41 no.5:1484-1486
(MIRA 14:12)

N '61.

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta.

(Bromine—Decay)

S/056/62/042/002/018/055 B102/B138

AUTHORS:

Baskova, K. A., Vasil'yev, S. S., No Seng Ch'ang, Shavtvalov,

L. Ya.

TTTLE:

Investigation of some radioactive nuclei in the range of

filled 1f7/2 shells

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42.

no. 2, 1962. 416-426

TEXT: A magnetic thin lens β spectrometer and a scintillation γ -spectrometer were used to investigate the radiation emitted by Ni⁶⁵, Co⁵⁵, trometer were used to investigate the radiation emitted by Ni⁶⁵, Co⁵⁵, Mn⁵¹, V⁴⁷, and Se⁸³ nuclei. These isotopes were produced by proton or deuteron irradiation of enriched targets in the cyclotron of the NIIYAF MGU deuteron irradiation of enriched targets in the cyclotron of the NIIYAF MGU the following results were obtained: 2.5 hr Ni⁶⁵ was produced in the reaction Ni⁶⁴ (d,p)Ni⁶⁵. In the Ni⁶⁵ spectrum three partial β transitions tion Ni⁶⁴ (d,p)Ni⁶⁵. In the Ni⁶⁵ spectrum three partial β transitions with 2120 ± 40, 1050 and 620 kev end-point energies (intensities 57, 14 and with 2120 ± 40, 1050 and 620 kev end-point energies (intensities 57, 14 and 29%) and 370, 1120, 1490, 1630 and 1720 kev γ -transitions were observed. Card 1/6

s/056/62/042/002/018/055

Investigation of some radioactive ...

18-hr co^{55} was produced in the reaction $Fe^{54}(d.n)co^{55}$; the end-point energies of the three β^+ spectrum components were 1500 \pm 30, 1040 and 550 kev (56, 41, 3%), gamma lines were observed at 940. 1410, 1800 and 2180 kev. The β^+ transition with the end-point energy 1500 kev takes place to an excited level with subsequent emission of 940-kev gamma rays β^- coincidence was observed for 1410 and 940 gamma quanta, the end-point energy of the β^{+} particles was 1040 kev. The 44 min Mn51 was obtained from ${\tt Cr}^{50}({\tt d.n.}){\tt Mn}^{51}$ reactions. The end-point energy of the two ${\tt \beta}^{\star}$ spectrum components are at 600 and at 2170 ± 60 keV, in the γ -spectrum hitherto unknown lines were observed at 1560 and 2030 keV, with a half-life of 50 + 10 min. The 1560 key transition is assumed to follow the 600 key $\hat{\beta}^*$ decay, the 1569 and 2030-kev levels belong to the reaction $v^{51}(p,n)c\tau^{51}$. The 33-min v^{47} isotope was obtained from $\mathrm{Ti}^{47}(p,n)v^{47}$. It is shown a simple β^+ spectrum with an end-point energy of 1890 \pm 30 keV. gamma lines were observed at 1800 and 2160 kev, the latter unknown up to now. The 25-min Se 83 was produced by a (d,p) reaction from Se 82 . Three somponents were found with 1.0, 1.8 and 3.3 MeV and point energies

Card 2/6

S/056/62/042/002/018/055 B102/B138

Investigation of some radioactive ...

(58, 40, \sim 2%); the latter is a new. Gamma transitions were recorded at 220, 355, 530, 780, 1060, 1300, 1480, 1850 and 2300 kev. Only those with 220, 355, 1850 and 2300 kev belonged to the 25-min activity, the others to Br 2. The results are discussed on the assumption that one group of the odd nuclei investigated had one nucleon outside the filled 1f $_{7/2}$ and in the other group one nucleon is deficient to fill this shell.

and in the other group one nucleon is deficient at ~ 600 , 1000 and Nuclei with 29 p or n have similar excited levels at ~ 600 , 1000 and 1400 kev, those with 27 p or n only at ~ 1400 kev. The excitation energy decreases with increasing number of even p and increases with the number of even n. The configurations of the ~ 1400 -kev levels will be

 $(1f_{7/2})^{-1}(2p_{3/2})^2$ for Z(N) = 29 and $(1f_{7/2})^{-2}(2p_{3/2})^1$ for Z(N) = 27.

Yu. A. Vorob'yev, V. S. Zazulin, A. A. Vasil'yev, and I. Ya. Ushakov are thanked for help. There are 16 figures, 1 table, and 22 references: 2 Soviet and 20 non-Soviet. The four most recent references to Englishlanguage publications read as follows: L. H. Th. Rietjens et al. Phys. Rev. 120, 527, 1960; M. K. Ramaswamy et al. Proc. Intern. Conf. Nucl. Struc. Canada, 1960, p. 963. R. W. Bauer, M. Deutsch. Nucl. Phys. 16, 264, Card 3/8

Investigation of some radioactive ...

\$\frac{5}{662}/042/002/018/055}\$
\$\frac{5}{102}/\text{B138}\$

1960; M. Nozawa et al. J. Phys. Soc. Japan, 15, 2137, 1960.

ASSOCIATION: Institut yaderncy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: September 23, 1961

5/048/62/026/012/009/016 B117/B102

AUTHORS:

Vasil'yev, S. S., and Shavtvalov, L. Ya.

TITLE:

Investigation of the radiation of F^{17} , p^{30} , Cl^{33} and Br^{78} Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

PERIODICAL: no. 12, 1962, 1495 - 1497

TEXT: The 3 -spectra of the above short-lived nuclei were investigated using a magnetic \(\rho_\)-spectrometer. p30 was obtained from the following reactions: $S^{32}(d, x)P^{30}$, $Al^{27}(x,n)P^{30}$ and $Si^{29}(d,n)P^{30}$. All Fermi plots of its h-spectra showed a second component: With P³⁰ obtained from S³²(d, w) the fundamental spectrum (upper limit 3.24±0.04 MeV) was superimposed by an other spectrum having an upper limit of 4.8+0.2 Mev. This could be assigned to Cl^{33} from $S^{52}(d,n)Cl^{53}$. For bombardment with 13.3 Mev deuterons the ratio of the total cross sections of $S^{32}(d,\alpha)P^{30}$ and $S^{32}(d,n)Cl^{33}$ were assumed to be 2.8 ± 0.5 . With p^{30} from Al²⁷(α ,n) a second non-identi-Card 1/3

5/048/62/026/012/009/016 B117/B102

Investigation of the radiation ...

fied spectrum was observed having its upper limit at ~ 1.3 MeV and its relative intensity <10%. With P^{30} obtained from Si²⁹(d,n) the upper limit of the second spectrum lay at ~1.7 Mev. The formation of this can apparantly be attributed to the use of SiO2, inducing the reaction 016(d,n)F17. ratio between the cross sections of $0^{16}(d,n)F^{17}$ and $Si^{29}(d,n)P^{50}$ was found to be 2.7±0.5. The averaged upper limit of the β^+ -spectrum for P^{30} was E = 3.27±0.05 MeV and the mean half-life 2.5±0.1 min. F^{17} was obtained from the reaction 0 16(d,n)F 17 which took place in a Ti 440 target. The Fermi curve of the β^+ -spectrum of F^{17} was linear up to 150 kev. The upper limit of the spectrum lay at 1.75±0.03 Mev. The F¹⁷ half-life was 70±8 sec. Br 78 was obtained from the reaction Se 77 (d,n) Br 78. Its 6+-spectrum consists of two components with their upper limits at 2.5+0.1 and 1.2+0.2 MeV and their relative intensities 90 and 10. The value 2.5 Mev shows that the upper limit was determined from the mass difference of Br78 and Se78. The component with E = 1.2 MeV seems to belong entirely to Br78. β -transitions Card 2/3

CIA-RDP86-00513R001548720018-5" APPROVED FOR RELEASE: 08/09/2001

5/048/62/026/012/009/016 B117/B102

Investigation of the radiation ...

with E = 1.2 MeV must take place to the 1310-keV level. The Br 78 half-life was 6.4 ± 0.4 min. This paper was presented at the 12 Annual Conference on Nuclear Spectroscopy in Leningrad from January 26 to February 2, 1962. There are 5 figures.

Card 3/3

VASIL'YEV, S.S.; SHAVIVALOV, L.Ya.

Gamma radiations from Au^{197*} and the β^{*-}-spectrum of 0¹⁵.

Izv. AN SSSR. Ser. fiz. 27 no.10:1261-1262 0 '63.

(MIRA 16:10)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

BASKOVA, K.A.; VASIL'YEV, S.S., KHAMO-LEYLA, M.A.; SHAVTVALOV, L.Ye.

Rediations from W and T1200 187 (T = 24 hrs).

Izv. AN SSSR. Ser. fiz. 27 no.1021258-1260 0 163.

(MIRA 16:10)

VASIL'YEV, S.S.; SHAVTVALOV, L.Ya.

Radiation from Al^{26m}, S³¹, Ti⁴³, and Mn⁵⁷. Shur. eksp. 1
teor. fiz. 45 no.5:1385-1386 N ¹⁶³. (MIRA 17:1)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

THEY, S. S.; KHANAAZHAV, L. T.; DZHORDZH, E. T.; SHAVTVALOV, L. Ya.

"The Investigation of pr Spectra of Ne 19 and Ge 67 and also the Gamma Radiation of Aul97m."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 6° .

NIIYAF, MGU Sci Res Inst Nuclear Physics, Moscow State Univ.

"layestigation of the Radiations of Radioactive Isotopes Se^{h3}, Cr¹⁹, Ga^{6c}, Ge^{3r}, and Sb¹¹."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Peb 64.

NIIYAF, MUU (Sci Res Inst Nuclear Physics, Moscow State Univ)

BASKOVA, K.A.; VASIL'TEV, S.S.; KHAMO-LEYLA, M.A.; SHAVTVALOV, L.Ya.

Study on / and / -radiation from Sc and Sb 117.

Study on / Sand / -radiation from Sc and Sb 2. Zhur eksp. i teor.

(MIRA 17:11)

L 11016-65 DIAAP/SSD ACCESSION NR: AP4046438 8/0056/64/047/003/1162/1164 AUTHORS: Baskova, K. A.; Vasil'yev, S. S.; Kh. mo-Leyla, M. A.; Shaytvalov, L. Ya. Investigation of Beta and Gamma Radiation from Sc-43 and TITLE: Sb-117 /4 SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 1162-1164 TOPIC TAGS: scandium, antimony, beta radiation, gamma radiation, heta spectrum, gamma spectrum, beta gamma correlation ABSTRACT: The β spectra of the two isotopes were determined with a magnetic-lens β spectrometer described by the authors previously (ZhETF v. 42, 416, 1962). The γ spectrum was measured in a scintillation γ spectrometer with a 100-channel pulse-height analyzer. The β spectrum of Sc 43 showed the presence of three partial β spectra

Card

L 11016-65 ACCESSION NR: AP4046438

2

with end point energies 1220 ± 40 keV (67%), 820 keV (26%), and 450 keV (7%). The γ spectrum showed easily resolved lines with energies 219, 370, 620, and 960 keV with corresponding intensities 1.0, 2.0, 0.5, and 0.1 relative to the annihilation line intensity (taken equal to 100). $\beta-\gamma$ coincidences were measured for sc^{43} with a β spectrometer connected in coincidence, with a single-channel scintillation spectrometer and gave end point values which agreed well with the end point values 820 \pm 40 and 500 \pm 40 keV, which agreed well with the values of the end point energies determined by the composition of the partial β^+ spectra. In the case of Sb117, the β spectrum proved to be simple with an end point energy 570 \pm \pm 40 keV, in agreement with the only published data. The γ spectrum contains a single 160-keV line, whose intensity referred to a single γ particle is 44.4. The β - γ coincidences, measured with apparatus described in the cited reference by the authors, also confirmed earlier published results by McGinnis (Phys. Rev. v. 97, 93, 1955). "The authors thank Yu. A. Vorob'yev, V. S. Zazulin, and N. S.

Card _ 2/3

L 11016-65 ACCESSION NR: AP40	046438	<u> </u>		
Kirichev for help	rith the work."	Orig. art.	h as: 3 fi gures.	
ASSOCIATION: None		**		
SUBMITTED: 10Mar64		• SOV • 002	BNCL:	
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L 11017-65 EWT(m) DIAAP/SSD/AFWL/ESD(gs)

ACCESSION NR: AP4046439

s/0056/64/047/003/1164/1167

AUTHORS: Vasil'yev, S. S.; Dzhorzh, E. T.; Shavtvalov, L. Ya.

TITLE: Investigation of Beta+ spectra of Ne-19, Ge-67, and Sb-118, and of Gamma radiation produced by bombarding Au-197 with Alpha particles

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 1164-1167

TOPIC TAGS: neon, germanium, antimony, gold, beta spectrum, gamma radiation, alpha particle scattering

ABSTRACT: The apparatus and the procedure used for the investigations were described elsewhere (Vasil'yev et al., Izv. AN SSSR ser. fiz. v. 22, 7, 1958 and v. 26, 1495, 1962; ZhETF v. 36, 317, 1959, v. 39, 1221, 1960, and v. 45, 1385, 1963). The end-point energies obtained for the β spectra of Ne¹⁹, Ge⁶⁷, and Sb¹¹⁸ were 2.2 \pm 0.03

Card 1/3

L 11017-65

ACCESSION NR: AP4046439

7

MeV, 2.96 ± 0.05 MeV, and a set of partial-spectrum end points 700 keV (5.3%), 2200 keV (53.7%), 3000 keV (25.4%) and 4000 keV (15.6%). The corresponding half-lives were 16.5 ± 1 sec, 21 ± 1 min, and, in the case of Sb, 3.7 ± 0.3 min for the positron energies 315 and 2000 keV, and 4.3 ± 0.2 min for a positron energy 3152 keV. The data are compared with the results by others. The γ radiation arising in the bombarament of gold by α particles was investigated and the resultant conversion spectrum is shown in Fig. 1 of the enclosure. "We thank Yu. A. Vorob'yev, V. S. Zazulin, N. S. Kirpichev, V. I. Plesskaya, V. M. Makuni, and T. N. Trapaznikova for assistance in this work." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Nuclear Physics Institute, Moscow State University)

SUBMITTED: 20Apr64

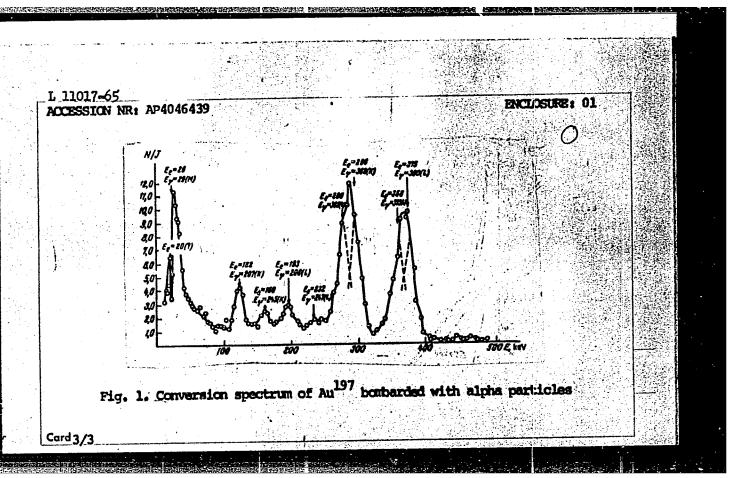
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NR REF SOV: 003

OTHER: 016

Card 2/3



	L 33614-65 EWT(m)/EWP(b)/EWP(t) Peb DIAAP/IJP(c) JD/JG		
	ACCESSION NR: AP5005940 8/0048/65/029/001/0200/0209		V
	AUTHOR: Baskova, K.A.; Vasil'yev, S.S.; Khamo-Leyls, M.A.; Shavtvalov, L.Ya.		
	TITLE: Radiations from Cr49, Ge and Ga68 Report, 14th Annual Conference on		
	Nuclear Spectroscopy held in Tbilisi, 14-22 Feb 1964		· · . · · .
	SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.2, 1965, 200-209		
	TOPIC TAGS: beta spectrum, positron decay, gamma ray spectrum, coincidence count-		
,	ing, odd even nucleus, odd odd nucleus, chromium, germanium, garrant		
	ABSTRACT: The positron and gamma spectra of Cr49, Ge69 and Ga68 were investigated		
	ABSTRACT: The positron and gamma spectra of concerning the decay schemes of odd nuclei in order to obtain further information concerning the decay schemes of odd nuclei in which a proton becomes an even neutron as the result of positron decay, and to in which a proton becomes an even neutron as the result of positron decay, and to		
	the state of minimal the linear relation touch by a talvacano transfer		3 2
	- or one recent between more number and decay energy for bigging under the contract of the con	N.	
	The investigated isotopes were obtained by bombarding suitably enriched targets with deuterons or alpha particles from the cyclotron of the Nuclear Physics Scientist with deuterons or alpha particles from the cyclotron of the Nuclear Physics Scientist were observed.		
	with a thin lens magnetic spectrometer, and the 7 spectra with a scintillation		11
	Card 1/3		
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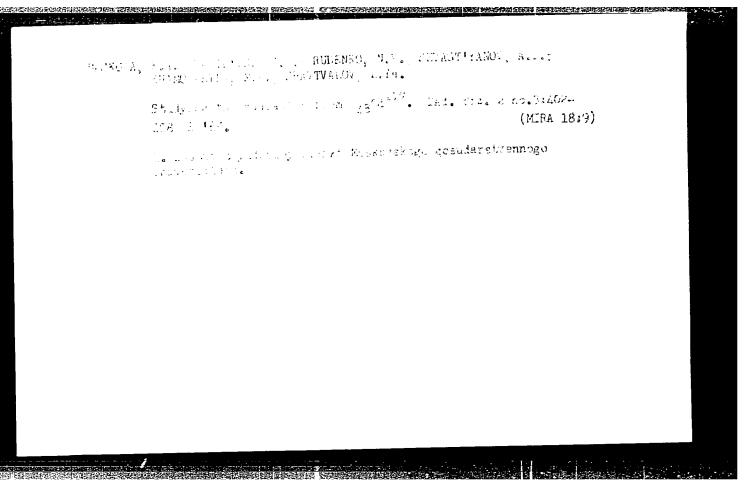
ACCESSION NR: AP5005940

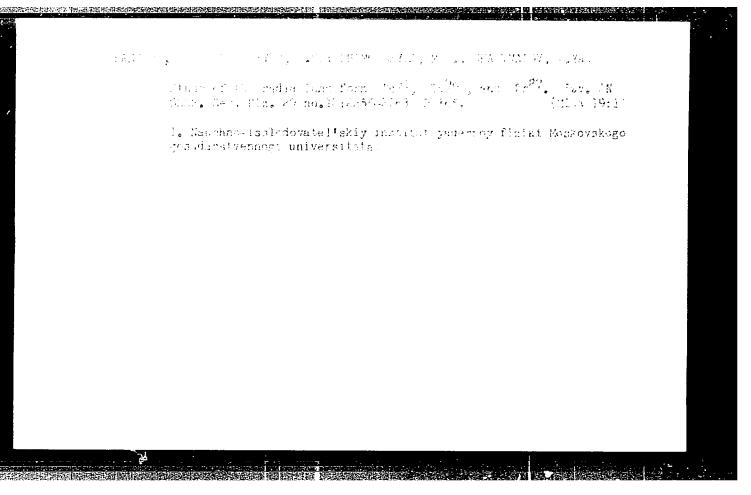
counter and a 100-channel pulse analyzer. For β - γ coincidence measurements a singlechannel y spectrometer was used. The apparatus has been described elsewhere in more detail by some of the present authors and others (Izv.AN SSSR, Ser. fiz. 25, 1115, 1961; Zhur.eksp.i teor.fiz.41,1481,1961; 42,416,1962). All three β spectra were found to be complex. The $Cr^{49}\beta$ spectrum contained three components, including a weak (6%) component with end-point energy 800 keV concerning which contradictory findings have been reported. Five γ lines were observed, of which one at 850 keV is new and one at 620 keV has been controversial. The β spectra of Ge⁶⁹ and Ga⁶⁸ had two components each, in agreement with findings of other authors. A new 1600 keV 7 ray was found in the Ga^{68} spectrum, and a previously reported 2320 keV γ ray was \sim not confirmed. Coincidences between various β components and γ rays were observed and these are discussed in detail with respect to the level diagrams and decay schemes. Attempts to determine the ground state spins and parities of the investigated nuclides from Everling plots (ref.cit.) were not successful, partly because of distortion of the linear relation by the effects of subshell completion, and partly because of insufficient data concerning neighboring nuclei. It was only pos sible to conclude that if the ground state of Ge69 is odd with spin 5/2, as is expected on the basis of the shell model, the ground state spin and parity of Ge67 must also be 5/2". "The authors express their gratitude to Yu.A. Yorob'yev,

Card2/3

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L 33614-65 ACCESSION NR: AP5008					2	
Zazulin and N.S.Kirp	ichev for as	sistance in the work.	" Orig.art.has	: 12 figu	res	tr :
and 2 tables.						
ASSOCIATION: none						
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L 15177-66 EVT(m) DIAAP ACC NR: AP6001143 SOURCE CODE: UR/0367/65/002/003/0402/0408

AUTHOR: Baskova, K.A.; Vasil'yev, S.S.; Rudenko, N.P.; Sevast'yanov, A.I.; Khamo- Leyla, M.A.; Shavtvalov, L.Ya.

ORG: Institute of Nuclear Physics, Moscow State University (Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta)

TITLE: Investigation of the radiation of 48Cd117

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 402-408

TOPIC TAGS: cadmium, beta spectrum, half life, isotope separation, indium

ABSTRACT: Cd^{117} was obtained from the reaction Cd^{116} (d,p). As a result of the investigations conducted it is shown that the half-life of Cd^{117} is about three hours. The half-life of 50 min previously ascribed erroneously to Cd^{117} is, apparently, that of In^{116} obtained from the reaction Cd^{116} (d, 2n). The beta-spectrum of Cd^{117} (3 hr) was investigated on a beta-spectrometer with a magnetic lens. The upper boundaries of the partial beta-spectra have the energy of 670; 1290; 1800; and 2200 kev. The value of log ft proved to be equal to 4.9; 6.7; 6.9; and 7.6, respectively. The results presented, as well as the investigations of the $\beta\gamma$ -coincidences made it possible to construct a decay scheme of Cd^{117} which differs substantially from that in the literature. Authors express their gratitude to Yu. A. Vorob'yev. V. S. Zazulin, N. S. Kirnichev, and M. R. Akhmed for assistance in the work. Orig. art. has: 7 figures and 1 table.

Card 1/W SUB CODE: 20, 18 / SUBM DATE: 19Feb65 / ORIG REF: 001 / OTH REF: 012

SHAVVA, K.I.; DRUZHININ, I.P.

Determination of specific costs of compensating for a power deficit in a system. I.AN Kir.SSR.Ser.est.i tekh.nauk 2 no.7:115-135 :60. (MIRA 14:4)

(Electric power production-Costs)

SHAVVA, K.I., inzh. (g.Frunze)

A new textbook of the economic aspects of water management ("Economics of water management" by D.T. Zuzik. Reviewed by K.I. Shavva).

Gidr. i mel. 12 no. 12:60 D '60, (MIRA 14:1)

(Water resources development--Economic aspects)

(Zuzik, D.T.)

SHAVVA, K. I.

Methods for determining the estimated optimum supply of irrigation sources in uncontrolled flow. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 4 no.1:51-73 '62. (MIRA 15:10)

1. Laboratoriya gidroenergetiki AN Kirgizskoy SSR (rukovoditeli kand. tekhn. nauk I. P. Druzhinin).

(Irrigation)

SHAVVA, K.I.

Method of determining the maximum economically justified capacity of irrigation systems under conditions of unregulated streamflow. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 4 no.10:87-98 162.

Approximate estimation of damages caused by & deficiency of water in the irrigation of farm crops. Ibid. \$99-113

(MIRA 16:11)

1. Laboratoriya gidroenergetiki (rukovoditel - kand. tekhn. nauk B.G. Kovalenko) AN Kirgizskoy SSR.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720018-5

L 23843-66 MT(m)/EWP(j) IJP(c) RM ACC NR: AP6007123 SOURCE CODE: UR/0079/66/036/002/0357/0359

AUTHOR: Golodnikov, G. V.; Shavva, T. G.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Catalytic dehydrogenation of gamma-trialkylsilylpropyl alcohols. 7 Part 3

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 357-359

TOPIC TAGS: organosilicon compound, dehydrogenation, alcohol

ABSTRACT: The optimum conditions for the dehydrogenation of γ -methyldiethylsilylpropyl and γ -methyldipropylsilylpropyl alcohol over a copper catalyst were determined: the temperature is 300°-320°C, and the flow rate 100. The yields of aldehydes of the general formula $\text{CH}_3\text{R}_2\text{SiCH}_2\text{CH}_2\text{CH}_0$ under these conditions were 24.4% (R=C₂H₅) and 26.9% (R=C₃H₇). The aldehydes were very unstable and apparently decomposed via a decarbony-lation reaction:

 $CH_3R_2SiGH_3CH_3CHO \xrightarrow{-CO} CH_3R_2SiC_2H_5$ $R = C_1H_{\mu} C_2H_7.$

It is concluded that in contrast to the comparatively stable aldehydes having three like radicals at the silicon atom ($R_3SiCH_2CH_2CH_0$, where $R=CE_3$, C_2H_5), aldehydes with unlike radicals at the silicon atom ($CH_3R_2SiCH_2CH_0$, where $R=C_2H_5$, C_3H_7) are un-

UDC: 547.1'3 + 547.268

Card 1/2

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SUB CODE:	07/	SUBM DATE: 01Apr65/	ORIG REF:	00.1\	OTH REF: 002	
Card 2/2	~ ~					

SHAVYAKOV, L.D., akademik; MAN'KOVSKIY, G.I., doktor tekhn.nauk

Problems of water control in building and operating bauxite
mines in the northern Urals. Gor. zhur. no.5:19-24 My '58.

(MIRA 11:6)

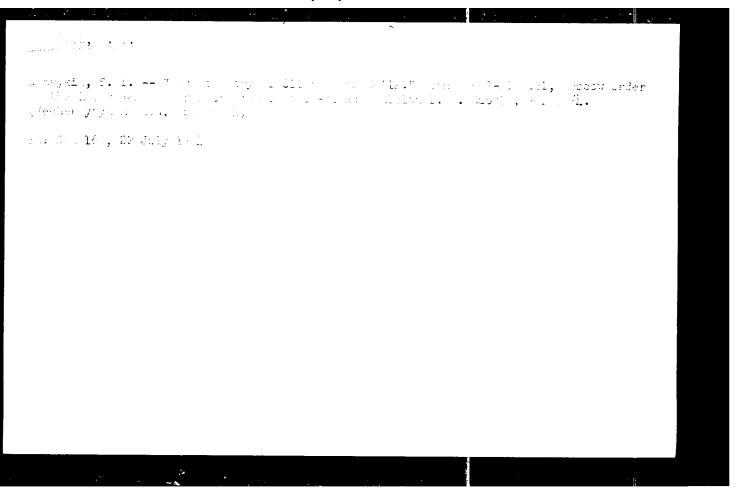
1.Institut gornogo dela AN SSSR.

(Ural Mountains--Bauxite) (Mine water)

TEREKHOV, K.S., inzh.; SHAVYKIN, N.I., inzh.

New method of joining metal fittings to porcelein cylindrical rods. Vest.elektromprom. 28 no.8:35-36 Ag '57. (MIRA 10:10)

(Electric insulators and insulation)



1.12-57-8-16088

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, p 7 (USSR)

AUTHOR: Shavykin, S.I.

TITLE: Bore-Hole Magnetometry by Means of a Static Magnetic Field (Magnitometriya skvazhin metodami staticheskogo magnitaogo polya)

PERIODICAL: Tr. Mosk. neft. in-ta (Transactions of the Moscow Oil Institute) 1955, Nr 15, pp 266-280

ABSTRACT: Obtained are the curves of the magnetic flux and axial component of the field of a permanent magnet for rocks differing in magnetic susceptibility which are encountered in a bore hole. From the author's synopsis.

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720018-5"

USSR/Physics of the Earth - Electric and Magnetic Field of the Earth, 0-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36401

Abstract: in operation, the problem of the variation of H along a hollow uniform magnetized cylinder is considered. The variation of H inside the cylinder is represented as a result of the action of the induced magnetic field, the flux lines of which are closed through the opening and have a direction opposite to the magnetizing field He. For weakly-magnetic rocks we have

 $\Delta Z = -2\pi\chi_{\rm H_{e2f}}(r, h, r_1, r_2),$ (1) where h is the height of the cylinder, r_1 and r_2 its external and internal radii, and r is the coordinate of the measurement point. Analysis of equation (1) lead to the conclusion that if the stratum is sufficiently thick we have $\Delta Z_{\rm max} = 4\pi\chi_{\rm H_{e2}}$, hence $\chi = \Delta Z_{\rm max}/4\pi H_{\rm e2}$.

Card 2/2

SYSOYEV, S.; SHAVYRIN, B.; KOZIN, A., red.; PETERSON, A., tekhn.red.

[Bryansk] Briensk. Briensk, Izd-vo "Brienskii rebochii,"
1960. 6 p., illus.

(Bryansk--Views)

(Bryansk--Views)

SHAVYRIN, Mikhail Vasil'yevich, inzhener; SOKOLOV, A.V., inzhener, redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Working metals by cutting; experience of machine-building plants of the Ministry of Communications] Obrabotka metallov resaniem; is opyta mashinostroital'nykh zavodov MPS. Moskva, Gos.transp. zhel-dor.izd-vo, 1956. 86 p. (MIRA 9:6)

(Metal cutting)

KAZANSKIY, Georgiy Alekseyevich; KOSAREV, Aleksendr Aleksendrovich; SAMOKHVALOV, Sergey Peofilovich; URYUPIN, German Mikhaylovich; SHAVYRIN, M.V., inzh., red.; KHITROV, P.A., tekhn.red.

[Design and maintenance of all-metal passenge: cars] Ustroistvo i remont teel nometallicheskikh passazhirskikh vagonov. Izd.2., perer. i dop. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 486 p. (MIRA 12:12)

(Railroads--Passenger cars)

SHAVYRIN, M.V., inch.

Switch plants of the German Domocratic Republic, Put! 1 put. khoz. 4 no.3:47 Mr '60. (MIRA 13:5)

(Railroads--Switches)

SUBJECT:

USSR/Welding

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135-1-7/14

AUTHORS:

Orlov, B.D., Candidate of Technical Sciences; Shavyrin, V.N., Engineer; and Novosel'tsev, N.A., Engineer.

TITLE:

X-ray inspection of spot-weld joints in high-strength aluminum alloys. (Rentgenovskiy kontrol'uzlov iz vysokoprochnykh alumini-

yevykh splavov, svarivayemykh tochkami).

PERIODICAL:

"Svarochnoye Proizvodstvo", 1957, # 1, pp 20-24. (USSR).

ABSTRACT:

The article contains general information of X-ray inspecting, and X-ray photograph reading in aircraft building. As an advanced welding machine design of Soviet make there is mentioned the MTUIT-type (MTIP-type), with stabilized welding impulses and considerably stabilized electrode pressure, which improves the

quality of welds.

The article contains 9 photographs, 1 drawing, 2 tables, and

8 references - two of which are Russian.

INSTITUTION: Not stated.

PRESENTED BY:

SUBMITTED:

AVAILABLE:

At the Library of Congress.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720018-5"

18(2,8,5)

SOV/135-59-11-4/26

AUTHOR:

Shavyrin, V.N., Engineer

TITLE:

Glue-Welded Structures and Their Use

PERIODICAL:

Swarochnoye proizvodstvo, 1959, Nr 11, pp 8-11 (USSR)

ABSTRACT:

When welding aluminum alloys, an increased corrosion resistance of welded joints at normal or elevated temperatures is often required. The best means of protection against corrosion is, in this case, the application of sulphuric acid anode oxidation. However, a preliminary oxidation of pieces to be welded is impossible owing to the high electrical resistance of the oxide film. Similarly, a subsequent oxidation after the welding is done, is not applicable due to the penetration of the electrolite into the clearance between the welded components. At the present time, a method has been worked out that permits filling of gaps by means of glue when spot welding is performed. The following persons participated in working out this method: L.B. Maseyev, A.V. Petrov, A.S. Shavlov-skiy, B.D. Kirillov and N.M. Klimakina. During the research, it was established that the glues, brands VK32EM, VK-32-200 and FL-4,

Card 1/2

SOV/135-59-11-4/26

Glue-Welded Structures and Their Use

are particularly suitable when spot welding is performed. However, the first two brands are not always applicable partially due to a certain toxicity (glue VK-32-200), partially owing to the fact that its stability against the action of water and acids has not yet been sufficiently established (glue VK32EM). That is why the author recommends the application of glue FL-4. In a Table on p 6, strength of glue-welded joints is given. Testing of glue-welded pieces as to their corrosion resistance property was performed by N.A. Makarov, Ye.V. Artamonova and A.N. Tumanov (Fig 2). Welds with application of FL-4 pieces were tested at normal and elevated temperatures (up to 145°C); it was established that the glue durability and stability underwent no change under these conditions. Tests were carried out by R.Ya. Fiskina. There are I table and 5 photographs.

ASSOCIATION: NIAT

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AUTHORS:

Andreyev, N.Kh., Candidate of Technical Sciences, Shavyrin, V.N.,

Engineer

TIME:

On the problem of breaking tests of welded and glue-welded spot

joints

FERIODICAL: Svarochnoye proizvodstvo, no. 8, 1961, 13 - 14

The magnitude of the breaking forces is one of the static strength characteristics of spot-welded joints. This force is mainly determined by tests with standard cross or box shaped specimens. It was found that by increasing the rigidity of specimens, the breaking strength of the spot welds could be raised. This was proved by breaking tests made with new specimens of higher rigidity, due to tubular stems welded onto the specimens, coaxially to the welded spot (the stem diameter was 20 - 25 mm for AMr 6 (AMg6) alloy 1.5 + 1.5 mm thick). Breaking tests were also performed with new DIGAT alloy (2+2 mm). Specimens suggested by the authors, which consisted of two lathe-turned or press-forged (rigid) cups joined by a spot weld combined with glue (glue-welded specimens), a spot weld (welded specimen), or rivets (riveted specimen). It was established that the

Card 1/2